

IP20 LED Power Supply





Features

- . Universal AC input / (MAX 264VAC)
- . Built-in active PFC function
- IP20
- . Suitable for dry environment
- . Protections: Short circuit / Over voltage / Over temperature
- . Adopt plastic case
- . Built-in lightning protection device, it can satisfy DM 1kV
- . Comply with the world lighting equipment safety standards
- . 5 years warranty

Description:

The SL100 series is an indoor constant voltage LED driver with the input voltage range of 90-264Vac, whose efficiency is up to 89%, and it's working in the temperature range of - 20 ° C to + 45° C under free air convection. It also has a high power factor, ultra-low total harmonic distortion, low standby power consumption, lightning protection and other comprehensive protective functions, which not only greatly improve the reliability of the product, but also guarantee the product life cycle. This series of products is designed for LED lighting and is used in indoor lighting applications. It is suitable for a wide range of applications in almost every environment where LED luminaires can be installed. It complies with the World Safety standard for lighting equipment and ensure the safety of the user and the luminaire system during installation.

Model	Output voltage	Output current	Rated CV voltage	Max. Output power	Output voltage precision	THD (Typ.)	Power factor (Typ.)	Efficienc y (Typ.)
SL100-24VFC(UE)	22.8-25.2V	0-4.0A	24V	96W	±5%	8%	0.95	89%

Remark: All the parameters are measured at 230VAC input, full load and 25 °C of ambient temperature if they are not specially mentioned



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Input

Parameter	Min. value	Typical value	Max. value	Note
Rated input voltage	100 Vac		240Vac	Derating curve is shown in figure
Input voltage	90 Vac		264Vac	
Input frequency	47Hz		63Hz	
May Inquit assurant			1.3A	100Vac,Full Load
Max. Input current			0.65A	230Vac,Full Load
Input inrush current			75A	230Vac/50Hz,cold start
Power factor	0.95	0.97		230Vac,Full Load
Total harmonic input		8%	15%	230Vac,Full Load
Leakage current			0.75mA	230Vac/50Hz,Full Load
Stand-by power		0.35W	0.5W	230Vac/50Hz,No Load
consumption				

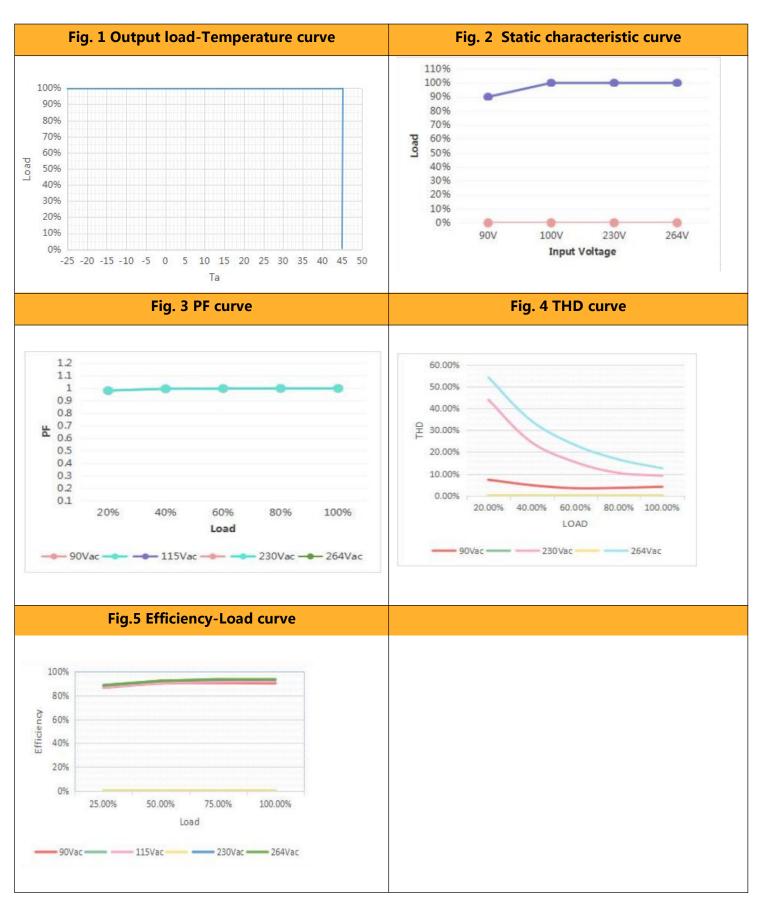
Output

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Parameter	SL100-24VFC(UE)	Note
Rated output voltage	24V	
Rated output current	4.0A	
Output current range	0-4.0A	
Rated output power	96W	
Rated output efficiency	89%	230Vac
Output voltage precision	±5%	
Output voltage ripple (PK-PK)	±1%	Full load (Test under 20M bandwidth)
Rise time	150mS	230Vac
Startup time	500mS	230Vac
Line regulation	±1%	full load
Load regulation	±2%	



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Characteristic curve





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Protection

Parameter		Conditions	Note	
	Over load	$1.1 \sim 1.6$ times rated load	Auto-recovery after	
			overload removed	
	Short circuit	Short circuit power≤1W	Hiccup mode, auto-	
			recovery after short circuit	
			removed	
Protection	Over voltage	≤1.5 times of rated output voltage	Remove over voltage	
Trotection			fault, power on again and	
			recover automatically	
	Over	65±5℃	Remove over temperature	
	temperature		fault, power on again and	
			recover automatically	

Environment Requirement

Parameter	Min.	Тур.	Max.	Note
Working temp.	-20℃	25°C	+45℃	See Fig.1
Storage temp.	-40°C	25°C	+85℃	
Working humidity	45%RH		85%RH	
Storage humidity	5%RH		95%RH	
IP grade			IP20	
Cooling mode	Natural cooling			



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Safety&EMC Standard

Certificate		Safety standards	Certification	Note	
UL/CUL		UL8750			
TUV		EN61347-1:2015			
		EN 61347-2-13:2014+A1			
		EN62493:2015			
Safety test		Qualification	Note		
Dielectric	Input to output	3750Vac/5mA Max/60s	Reinforced in	Reinforced insulation , no	
strength			breakdown, no flashover		
Insulation	Input to output	≥50MΩ	Test voltage	e : 500Vdc	
resistance					
Grounding resistance		NC			
Leakage current		≤0.75mA	230Vac		
EMI/EMS item		Standard/Level	Data		
Conduction CE		EN55015			
Radiation RE		EN55015			
Harmon	nics	EN IEC 61000-3-2	Class C		

Others

Parameters	arameters Condition		
Lifetime	30,000 hours	230Vac,full load, TC 85℃	
MTBF	200,000 hours	230Vac,full load, TA 25°C	
IVITOR	200,000 Hours	(MIL-HDBK-217F)	
TC	90℃	TA: 45℃	
Warranty	5 years	TC: 85°C	
Weight	255g	±5g	
Dimension	Dimension 320.2mm * 30mm * 18.2mm		



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